

CIVIL ABBREVIATIONS:

AB	ABOVE	LF	LENGTH OF LENGTH OF CURVE LINEAL FEET
AC	ASPHALTIC CONCRETE OR ASBESTOS CEMENT	LP	LOW PRESSURE OR LOW POINT
AD	AREA DRAIN	LT	LIGHT
ADJ	ADJUSTABLE	MAN	MANUAL
AGGR	AGGREGATE	MAINT	MAINTAIN OR MAINTENANCE
ALT	ALTERNATE	MAX	MAXIMUM
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MED	MEDIUM
ASPH	ASPHALT	MH	MANHOLE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	MIN	MINIMUM
AVG	AVERAGE	MISC	MISCELLANEOUS
AWG	AMERICAN WIRE GAUGE	MLP	METAL LIGHT POLE
AWWA	AMERICAN WATER WORKS ASSOCIATION	MTL	METAL
		MON	MONUMENT
BC	BEGIN CURVE	N	NORTH
BCR	BEGIN CURB RETURN	NIC	NOT IN CONTRACT
BFV	BUTTERFLY VALVE	NO	NUMBER
BLDG	BUILDING	NOM	NUMBER
BLK	BLOCK	NRS	NON RISING STEM
BM	BENCH MARK	NTS	NOT TO SCALE
BOP	BOTTOM OF PIPE		
BOT	BOTTOM	OC	ON CENTER
BW	BOTH WAYS	OD	OUTSIDE DIAMETER
		OH	OVERHEAD
CA	CONDUIT/CAUSTIC	OPP	OPPOSITE
C	COMPRESSED AIR	ORIG	ORIGINAL
CB	CATCH BASIN	OZ	OUNCE
CC	CENTER TO CENTER		
CF	CURB FACE, CUBIC FOOT OR CUBIC FEET	P	POWER
CFS	CUBIC FEET PER SECOND	PB	PULL BOX
CHWR	CHILLED WATER RETURN	PCC	PORTLAND CEMENT CONCRETE
CHWS	CHILLED WATER SUPPLY	PCF	POUNDS PER CUBIC FOOT
CI	CAST IRON	PE	PLAIN END
CIP	CAST IRON PIPE	PI	POINT OF INTERSECTION
CISP	CAST IRON SOIL PIPE	PIV	POST INDICATOR VALVE
CLR	CLEAR	PL	PLATE
CMP	CORRUGATED METAL PIPE	PMH	POWER MANHOLE
CO	CLEANOUT	POC	POINT ON CURVE OR
COL	COLUMN		POINT OF CONNECTION
COMM	COMMUNICATION	PP	POWER POLE
CONC	CONCRETE	PROJ	PROJECTION OR PROJECT
CONN	CONNECTION	PRV	PRESSURE RELIEF VALVE
CONST	CONSTRUCTION	PS	PRESSURE SEWER
CONT	CONTINUOUS, CONTINUATION OR CONTENT	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
CU	CUBIC	PT	POINT OF TANGENCY
CP	CONCRETE PIPE	PVC	POLYVINYL CHLORIDE
CV	CHECK VALVE	PVMT	PAVEMENT
CW	COLD WATER		
CY	CUBIC YARDS	Q	RATE OF FLOW
D	DRAIN, DEGREE OF CURVE	R	RADIUS
DB	DUCT BANK	RCB	REINFORCED CONCRETE BOX
DET	DETAIL	RCP	REINFORCED CONCRETE PIPE
DI	DRAIN INLET	RD	ROAD OR ROOF DRAIN
DIA	DIAMETER	RED	REDUCER OR REDUCING
DIM	DIMENSION	REF	REFERENCE
DIP	DUCTILE IRON PIPE	REINF	REINFORCEMENT OR REINFORCED
DMH	DRAIN MANHOLE	REQD	REQUIRED
DIST	DISTANCE	REV	REVISION
DWG	DRAWING	RTE	ROUTE
		RW	RAW WATER
E	EAST	R/W	RIGHT OF WAY
EACH	EACH		
ECC	ECCENTRIC	S	SOUTH, SLOPE OR SEWER
EOR	END CURB RETURN	SS	SANITARY SEWER
EF	EACH FACE	SCH	SCHEDULE
EL	ELEVATION	SD	STORM DRAIN
ELEC	ELECTRIC OR ELECTRICAL	SDMH	STORM DRAIN MANHOLE
EMH	ELECTRICAL MANHOLE	SECT	SECTION
EP	EDGE OF PAVEMENT	SF	SQUARE FEET
EQ	EQUAL	SEC	SECONDS
EQUIP	EQUIPMENT	SHT	SHEET
EW	EACH WAY	SIG	SIGNAL
EXC	EXCAVATION	SIM	SIMILAR
EXIST	EXISTING	SL	SURVEY LINE
EXP JT/EJ	EXPANSION JOINT	SSMH	SEWER MANHOLE
		SPEC	SPECIFICATION
F	FUEL	SQ	SQUARE
FD	FOUNDATION DRAIN OR FLOOR DRAIN	ST	STREET OR STEAM
FDC	FIRE DEPARTMENT CONNECTION	STA	STATION
FH	FIRE HYDRANT	STD	STANDARD
FDN	FOUNDATION	STL	STEEL
FFE	FINISHED FLOOR ELEVATION	STRUC	STRUCTURAL
FG	FINISHED GRADE	SYMM	SYMMETRICAL
FS	FINISHED SURFACE	SYS	SYSTEM
FIN	FINISH OR FINISHED		
FIG	FIGURE	T	TANGENT, TELEPHONE, TOP OR THICKNESS
FL	FLOW LINE	TB	THRUST BLOCK OR TOP OF BRICK
FLG	FLANGE	T&B	TOP AND BOTTOM
FLR	FLOOR	TC	TOP OF CURB OR TOP OF CONCRETE
FM	FORCE MAIN	TG	TOP OF GRATE
FT	FOOT OR FEET	TOP	TOP OF PIPE
FTG	FOOTING	TP	TOP OF PAVEMENT
FW	FIRE WATER	TW	TOP OF WALL
		TEL	TELEPHONE
G	GAS	THK	THICK
GA	GAUGE	THRU	THROUGH
GAL	GALLON	TMH	TELEPHONE MANHOLE
GALV	GALVANIZED	TYP	TYPICAL
GB	GRADE BREAK		
GIP	GALVANIZED IRON PIPE	UG	UNDERGROUND
GPM	GALLONS PER MINUTE	UNK	UNKNOWN
GR	GRADE	UON	UNLESS OTHERWISE NOTED
GRD	GROUND		
GS	GALVANIZED STEEL	V	VALVE OR VENT
GV	GATE VALVE	VB	VALVE BOX
		VC	VERTICAL CURVE
HB	HOSE BIBB	VCP	VITRIFIED CLAY PIPE
HDWL	HEADWALL	VERT	VERTICAL
HGT	HEIGHT		
HR	HANDRAIL	W	WATER OR WEST
HGL	HYDRAULIC GRADE LINE	W/	WITH
HORIZ	HORIZONTAL	WD	WIDTH OR WOOD
HP	HIGH POINT, HORSEPOWER OR HIGH PRESSURE HIGH	WLP	WOODEN LIGHT POLE
		W/O	WITHOUT
HPFL	POINT FLOW LINE	WP	WORK POINT
HW	HOT WATER	WT	WEIGHT
HWR	HOT WATER RETURN	W	WATER
HWS	HOT WATER SUPPLY	W/V	WITH VALVE
HWY	HIGHWAY	WW	WASTE WATER
	HIGH VOLTAGE	WWF	WELDED WIRE FABRIC
ID	INSIDE DIAMETER		
IN	INCH OR INCHES	YH	YARD HYDRANT
INSUL	INSULATED OR INSULATION		
INV	INVERT		
IFC	ISSUED FOR CONSTRUCTION		
IP	IRON PIPE		
IE	INVERT ELEVATION		
JB	JUNCTION BOX		
JS	JUNCTION STRUCTURE		
KO	KNOCKOUT		

LEGEND:

EXISTING

NEW

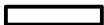
ITEM



MONUMENT NO. COORDINATES, ELEVATION, AND DATUM



SOIL BORING LOCATION AND NO. OR WORKPOINT



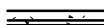
STRUCTURE



CONCRETE



AC PAVEMENT



CONCRETE CURB AND GUTTER



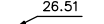
CONCRETE CURB



BLOCK WALL



CONTOUR



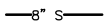
GRADE SPOT ELEVATION (AT DECIMAL POINT OR AT ARROWHEAD)



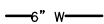
FLOW LINE



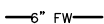
WROUGHT IRON FENCE



SANITARY SEWER LINE WITH PIPE SIZE



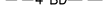
WATER LINE WITH PIPE SIZE



FIRE WATER LINE WITH PIPE SIZE



PERFORATED BIOSWALE DRAIN LINE



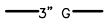
STORM DRAIN LINE WITH PIPE SIZE



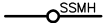
FIRE DEPARTMENT CONNECTION



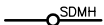
GAS LINE WITH PIPE SIZE



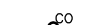
SEWER MANHOLE



STORM DRAIN MANHOLE



CLEANOUT



REDUCER



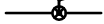
GATE VALVE



POST INDICATOR VALVE



VALVE PIT



FIRE HYDRANT



BUTTERFLY VALVE



VALVE



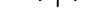
FIRE HYDRANT



BUTTERFLY VALVE



VALVE



BUTTERFLY VALVE



VALVE



BUTTERFLY VALVE



VALVE



BUTTERFLY VALVE



VALVE



BUTTERFLY VALVE



VALVE



BUTTERFLY VALVE



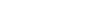
VALVE



BUTTERFLY VALVE



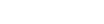
VALVE



BUTTERFLY VALVE



VALVE



BUTTERFLY VALVE



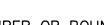
VALVE



BUTTERFLY VALVE



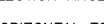
VALVE



BUTTERFLY VALVE



VALVE



BUTTERFLY VALVE



VALVE



BUTTERFLY VALVE



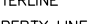
VALVE



BUTTERFLY VALVE



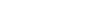
VALVE



BUTTERFLY VALVE



VALVE



BUTTERFLY VALVE



VALVE

GENERAL NOTES:

1. THE LOCATION OF UTILITIES AND OTHER OBSTRUCTIONS SHOWN ON THESE PLANS HAVE BEEN MADE BY ACTUAL FIELD MEASUREMENTS, SUPPLEMENTED BY RECORD INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION AND SHALL NOTIFY THE FIELD CONTRACTING OFFICER TO BEGINNING OF WORK IF ANY DISCREPANCIES ARE FOUND.
2. THE CONTRACTOR SHALL OBTAIN THE CONTRACTING OFFICER'S APPROVAL PRIOR TO DEMOLITION OF ANY FENCING.
3. THE CONTRACTOR SHALL ADHERE TO ALL SAFETY CODES, REGULATIONS, SECURITY AND SPECIFICATIONS FOR THE DURATION OF THIS CONTRACT.
4. THE CONTRACTOR SHALL COMPLETE ALL WORK SHOWN ON THE PLANS AND IN THE SPECIFICATIONS UNLESS INDICATED AS NOT IN CONTRACT (NIC).

GRADING NOTES:

GENERAL

1. ALL GRADING SHALL CONFORM TO THE 2007 CALIFORNIA BUILDING CODE.
2. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION/GRADING.
3. SITE GRADING SHALL BE DONE UNDER THE SUPERVISION OF A SOILS ENGINEER IN CONFORMANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL STUDY BY FUGRO WEST, INC. DATED OCTOBER 2008. TWO SETS OF THE FINAL COMPACTION REPORT SHALL BE SUBMITTED TO THE BUILDING AND SAFETY DEPARTMENT AND SHALL INCLUDE CERTIFICATION THAT GRADING HAS BEEN COMPLETED IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE SITE INVESTIGATION REPORT.
4. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER AT LEAST 24 HOURS IN ADVANCE TO REQUEST FINISH LOT GRADE AND DRAINAGE INSPECTION.
5. THE CONTRACTOR SHALL NOTIFY THE CLIENT TWO DAYS BEFORE DIGGING AT 1-650-604-6659.

CUT / FILL

6. MAXIMUM CUT AND SLOPE = 2:1. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL. FILLS SHOULD BE PLACED IN THIN LIFTS (8-INCH MAX OR AS RECOMMENDED IN SOILS REPORT). COMPACTED AND TESTED AS GRADING PROCESS UNTIL FINAL GRADES ARE ATTAINED.
7. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12 INCHES SHALL BE BURIED OR PLACED IN FILLS CLOSER THAN 10 FEET TO THE FINISHED GRADE.
8. A FINAL COMPACTION REPORT SHALL BE SUBMITTED FOR ALL FILLS OVER 1' DEEP.

DRAINAGE AND EROSION / DUST CONTROL

9. NO OBSTRUCTION OF NATURAL WATER COURSES SHALL BE PERMITTED.
10. DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL (BEST MANAGEMENT PRACTICES, BMPs) SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.
11. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
12. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING OPERATIONS.
13. FINISH GRADE SHALL BE SLOPED AWAY FROM ALL EXTERIOR WALLS AT NOT LESS THAN 1/2" PER FOOT FOR A MINIMUM OF 3'.

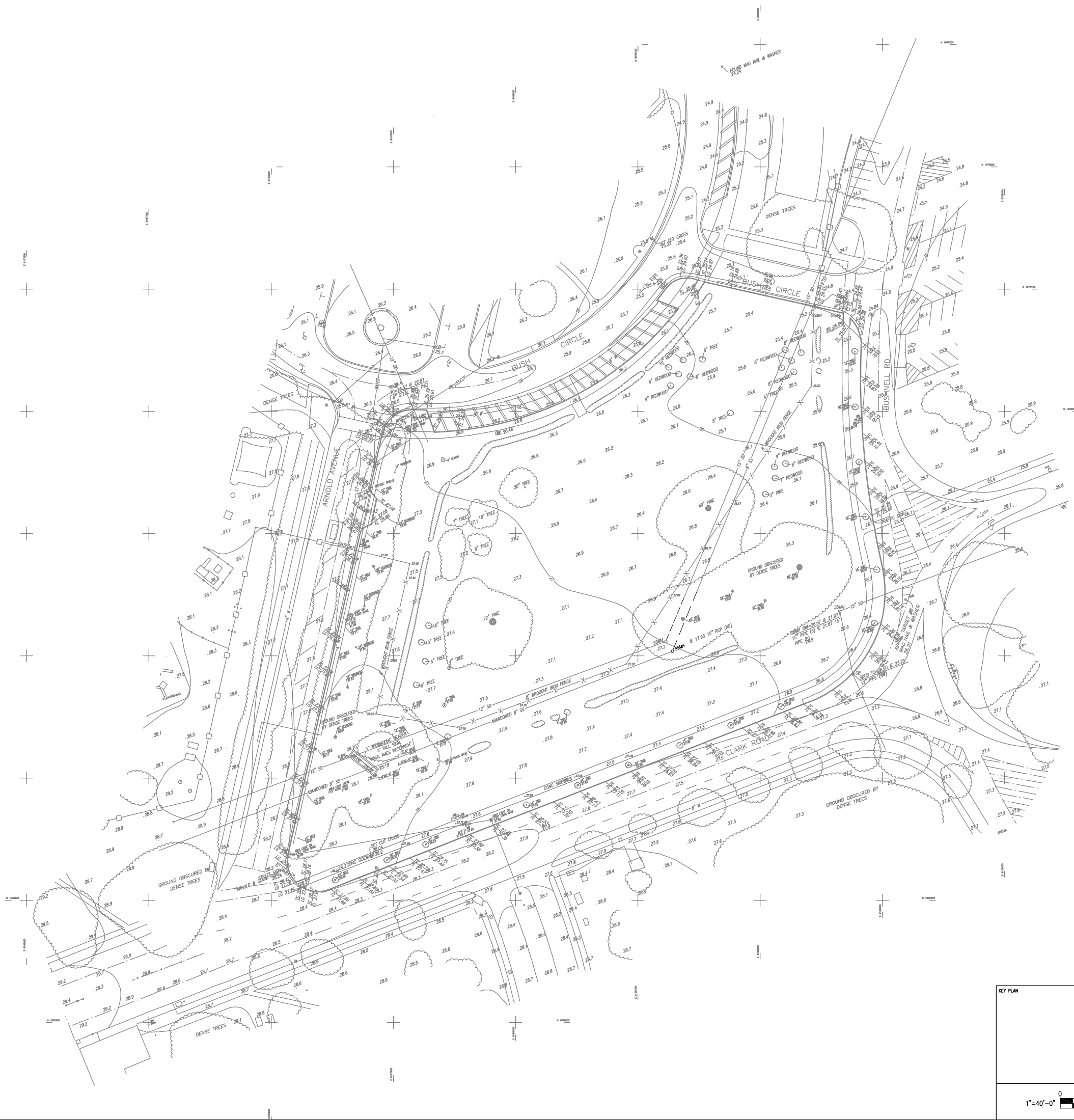
COMPLETION OF WORK

14. A REGISTERED CIVIL ENGINEER SHALL SUBMIT TO THE CONTRACTING OFFICER WRITTEN CERTIFICATION OF COMPLETION OF GRADING IN ACCORDANCE WITH THE APPROVED GRADING PLAN PRIOR TO REQUESTING INSPECTION AND ISSUANCE OF THE BUILDING PERMIT. CERTIFICATION SHALL INCLUDE LINE, GRADE, SURFACE DRAINAGE, ELEVATION, AND LOCATION OF PERMITTED GRADING ON THE LOT.

NPDES : WHEN ONE ACRE OR MORE IS BEING DISTURBED:

1. CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPs) FOR THE MANAGEMENT OF STORM WATER AND NON-STORMWATER DISCHARGES SHALL BE IMPLEMENTED ON THE JOB SITE THROUGHOUT THE TIME OF CONSTRUCTION. THE IMPLEMENTATION AND MAINTENANCE OF SITE BMPs IS REQUIRED TO MINIMIZE JOB SITE EROSION AND SEDIMENTATION. CERTAIN BMPs MAY BE REQUIRED TO REMAIN IN PLACE THROUGHOUT THE YEAR TO MINIMIZE EROSION AND SEDIMENTATION.
2. EROSION CONTROL BMPs SHALL BE IMPLEMENTED AND MAINTAINED TO MINIMIZE THE ENTRAINMENT OF SOIL IN RUNOFF FROM DISTURBED SOIL AREAS ON CONSTRUCTION SITES.
3. SEDIMENT CONTROL BMPs SHALL BE IMPLEMENTED AND MAINTAINED TO MINIMIZE THE TRANSPORT OF SOIL FROM THE CONSTRUCTION SITE.
4. GRADING SHALL BE PHASED TO LIMIT THE AMOUNT OF DISTURBED AREAS EXPOSED TO THE EXTENT FEASIBLE.
5. AREAS THAT ARE CLEARED AND GRADED SHALL BE LIMITED TO ONLY THE PORTION OF THE SITE THAT IS NECESSARY FOR CONSTRUCTION. THE CONSTRUCTION SITE SHALL BE MANAGED TO MINIMIZE THE EXPOSURE TIME OF DISTURBED SOIL AREAS THROUGH PHASING AND SCHEDULING OF GRADING AND THE USE OF TEMPORARY AND PERMANENT SOIL STABILIZATION.
6. ONCE DISTURBED, SLOPES (TEMPORARY OR PERMANENT) SHALL BE STABILIZED IF THEY WILL NOT BE WORKED WITHIN 21 DAYS. DURING THE STORM SEASON, ALL SLOPES SHALL BE STABILIZED PRIOR TO A PREDICTED STORM EVENT. CONSTRUCTION SITES SHALL BE REVEGETATED AS EARLY AS FEASIBLE AFTER SOIL DISTURBANCE.
7. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO ELIMINATE OR REDUCE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
8. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN SUCH A CONDITION THAT A STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OTHER THAN STORMWATER (NON-STORMWATER DISCHARGES) ARE PROHIBITED, EXCEPT AS AUTHORIZED BY AN INDIVIDUAL NPDES PERMIT, THE STATEWIDE GENERAL PERMIT- CONSTRUCTION ACTIVITY. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, SOLVENTS, DETERGENTS, GLUES, LIME, PESTICIDES, HERBICIDES, FERTILIZERS, WOOD PRESERVATIVES, AND ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; CONCRETE AND RELATED CUTTING OR CURING RESIDUES; FLOATABLE WASTES; WASTES FROM ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; WASTES FROM STREET CLEANING; AND SUPER-CHLORINATED POTABLE WATER FROM LINE FLUSHING AND TESTING. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
9. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITE AND MUST NOT BE DISCHARGED TO RECEIVING WATERS OR THE LOCAL STORM DRAIN SYSTEM.
10. APPROPRIATE BMPs FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED TO ELIMINATE OR REDUCE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF.
11. ALL CONSTRUCTION CONTRACTORS AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BMPs AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
12. DISCHARGING CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING GROUNDWATER THAT HAS INFILTRATED INTO THE CONSTRUCTION SITE IS PROHIBITED. DISCHARGING OF CONTAMINATED SOILS VIA SURFACE EROSION IS ALSO PROHIBITED. DISCHARGING NON-CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING ACTIVITIES MAY REQUIRE A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE REGIONAL WATER QUALITY CONTROL BOARD.
13. BMPs SHALL BE MAINTAINED AT ALL TIMES. IN ADDITION, BMPs SHALL BE INSPECTED PRIOR TO PREDICTED STORM EVENTS AND FOLLOWING STORM EVENTS.
14. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY, ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED OF IN TRASH OR RECYCLE BINS.

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NOTE
DATE OF AERIAL TOPOGRAPHIC SURVEY WAS SEPTEMBER 2008.
DATE OF FIELD TOPOGRAPHIC SURVEY WAS SEPTEMBER 17, 2008.
ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
NO BOUNDARY INFORMATION DEPICTED ON THIS SURVEY.

SURVEYOR'S STATEMENT
THIS TOPOGRAPHIC SURVEY MAP WAS PREPARED BY ME OR UNDER MY DIRECTION.

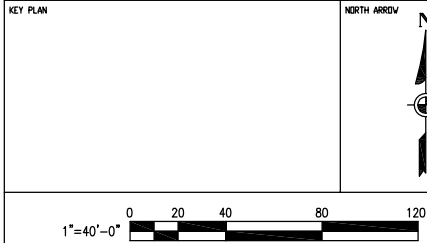
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LICENSE EXPIRES 9-30-2010


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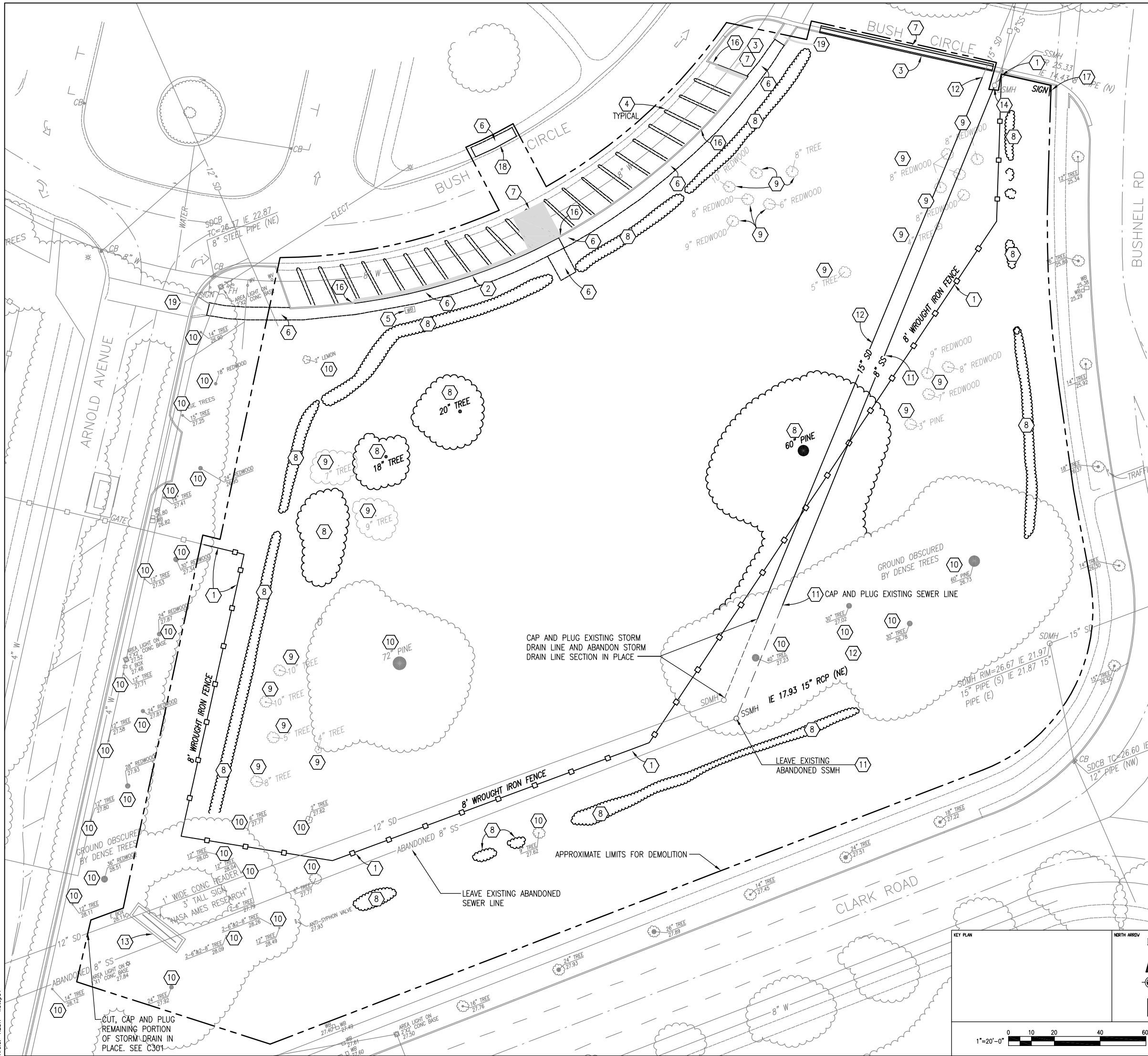
LEGEND

- BFP BACKFLOW PREVENTER
CONC CONCRETE
E BOX ELECTRIC BOX
FL FLOW LINE
INV INVERT
LG LIP OF GUTTER
SDCB STORM DRAIN CATCH BASIN
SDMH STORM DRAIN MANHOLE
SSMH SANITARY SEWER MANHOLE
TC TOP/FACE OF CURB
WB WATER BOX
WV WATER VALVE
AREA LIGHT
FIRE HYDRANT
AERIAL TARGET/MAG NAIL & WASHER
SET CUT CROSS



PROJECT STATUS		
PRELIMINARY - NOT FOR CONSTRUCTION		
ISSUE	DATE	DESCRIPTION
1	10/20/2008	30% PRICING
2	11/07/2008	30% DESIGN REVISION
3	12/12/2008	60% INTERNAL QA/QC & COST ESTIMATE
4	12/19/2008	60% PRE-FINAL, NASA REVIEW
5	01/19/2009	60% FINAL ISSUE TO NASA
6	02/16/2009	90% QA/QC & COST ESTIMATE
MARK	DATE	DESCRIPTION
DRAWN	DATE	<div>Ames Research Center Moffet Field, California</div> <div>N232 COLLABORATIVE SUPPORT FACILITY</div> <div>EXISTING TOPOGRAPHIC SURVEY PLAN</div> <div>SIZE: D CASE CODE: 25307 A232-0800- C011 REV: 1</div> <div>SCALE: INDEX SHEET OF</div>
DESIGNED	DATE	
CHECKED	DATE	
PREPARED	DATE	
REQUESTOR	DATE	
REDA	DATE	
SAFETY	DATE	
SUPERVISOR	DATE	

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Xrefs: XREF: Xref01



KEY DEMOLITION NOTES:

- CAREFULLY REMOVE EXISTING WROUGHT IRON FENCE AND SALVAGE FOR FUTURE REINSTALLATION.
- REMOVE EXISTING CONCRETE CURB
- REMOVE EXISTING CONCRETE CURB & GUTTER
- REMOVE EXISTING PARKING STALL STRIPING
- PROTECT IN PLACE EXISTING WATER BOX
- REMOVE EXISTING CONCRETE SIDEWALK
- REMOVE EXISTING AC PAVEMENT. SEE C201 FOR LIMITS.
- REMOVE EXISTING TREE
- REMOVE AND TRANSPLANT EXISTING TREE. SEE LANDSCAPE DRAWING FOR LOCATION.
- PROTECT IN PLACE EXISTING TREE
- REMOVE EXISTING SEWER LINE
- PROTECT IN PLACE EXISTING STORM DRAIN MANHOLE CAP AND PLUG EXISING (NE) 15" OUTLET.
- PROTECT IN PLACE EXISTING SIGN AND CONCRETE PAD
- PROTECT IN PLACE EXISTING SEWER MANHOLE
- PROTECT IN PLACE EXISTING CONCRETE SIDEWALK
- PROTECT IN PLACE EXISTING CONCRETE CURB
- REMOVE AND RELOCATE EXISTING SIGN. SEE C201 FOR LOCATION
- SAWCUT EXISTING CONCRETE CURB. SEE C201
- PROTECT IN PLACE EXISTING SIDEWALK RAMP

NOTES:

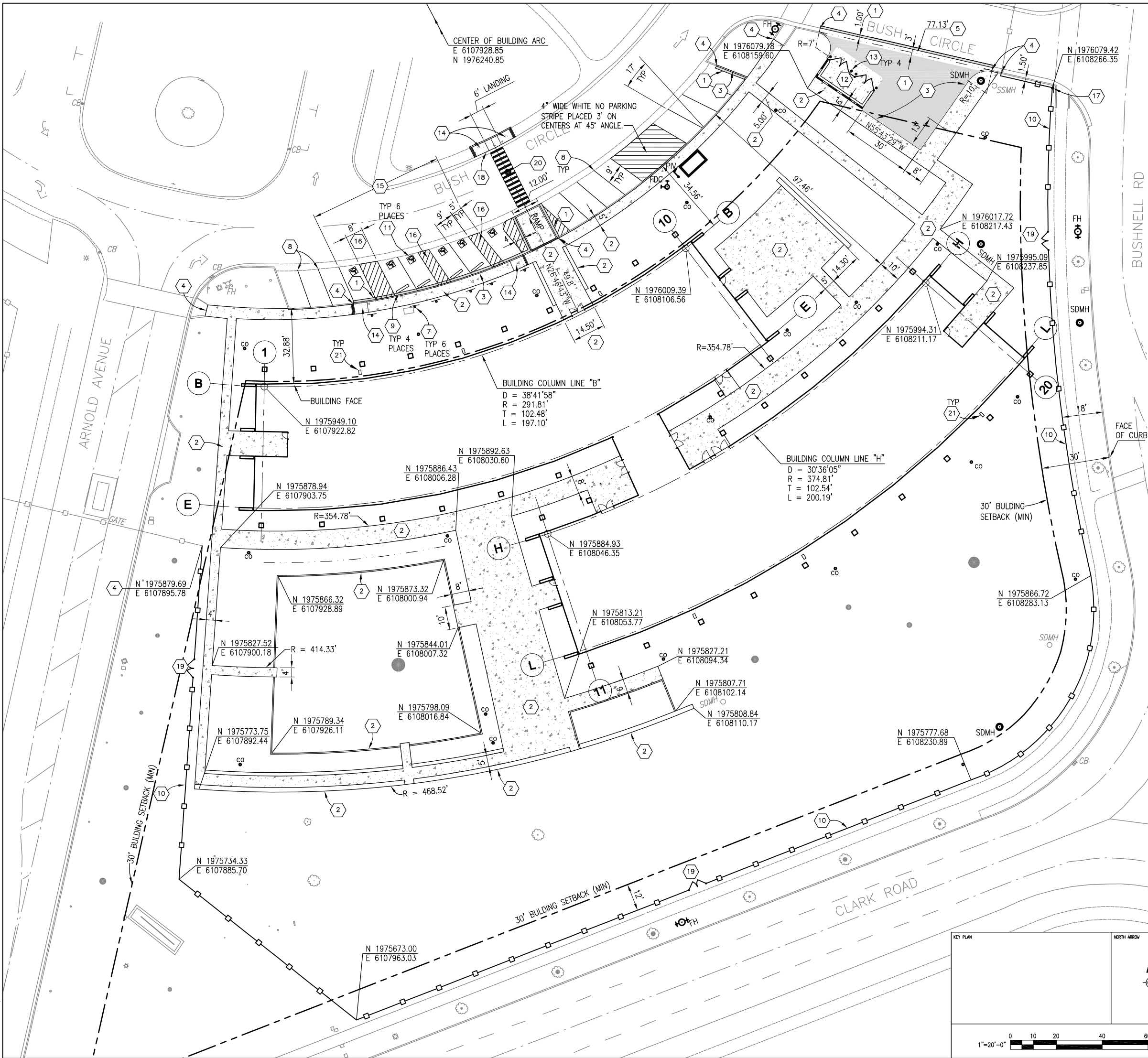
- SEE DRAWING C001 FOR CIVIL ABBREVIATIONS AND LEGEND.

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ARCHITECT/ENGINEER STAMP			

PROJECT STATUS		
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N232 COLLABORATIVE SUPPORT FACILITY	
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KEY NOTES:

- 1 AC PAVEMENT. SEE DETAIL 1
C901
- 2 CONCRETE PAVEMENT & MISC ITEMS. SEE LANDSCAPE DRAWINGS FOR DETAILS.
- 3 CONCRETE CURB. SEE DETAIL 4
C901
- 4 JOIN EXISTING
- 5 CONCRETE GUTTER. SEE DETAIL 5
C901
- 6 NOT USED
- 7 HANDICAPPED SIGN PLACED AT CENTER OF STALL
- 8 4" WIDE WHITE PARKING STRIPE
- 9 CONCRETE PARKING BUMPER. SEE DETAIL 2
C901
- 10 WROUGHT IRON FENCE. SEE DETAIL X
C902
- 11 HANDICAPPED SYMBOL 1
C902
- 12 TRASH / RECYCLING BIN ENCLOSURE. SEE DETAIL 7
C901
- 13 GUARD POST. SEE DETAIL 7
C901
- 14 6' LONG SIDEWALK RAMP
- 15 4" WIDE BLUE PARKING STRIPE
- 16 4" WIDE BLUE NO PARKING STRIPE PLACE 3' ON CENTERS AT 45° ANGLE.
- 17 RELOCATED EXISTING SIGN.
- 18 SAWCUT EXISTING CONCRETE TO MATCH RAMP SLOPE AND LANDING.
- 19 8' WIDE ACCESS GATE WITH "NO PARKING FIRE DEPARTMENT ACCESS GATE" SIGN.
- 20 12" WIDE WHITE CROSSWALK STRIPE PLACED 3' ON CENTERS
- 21 CONCRETE SPLASHBLOCK. SEE DETAIL 8
C901

NOTES:

1. SEE DRAWING C001 FOR CIVIL ABBREVIATIONS AND LEGEND.

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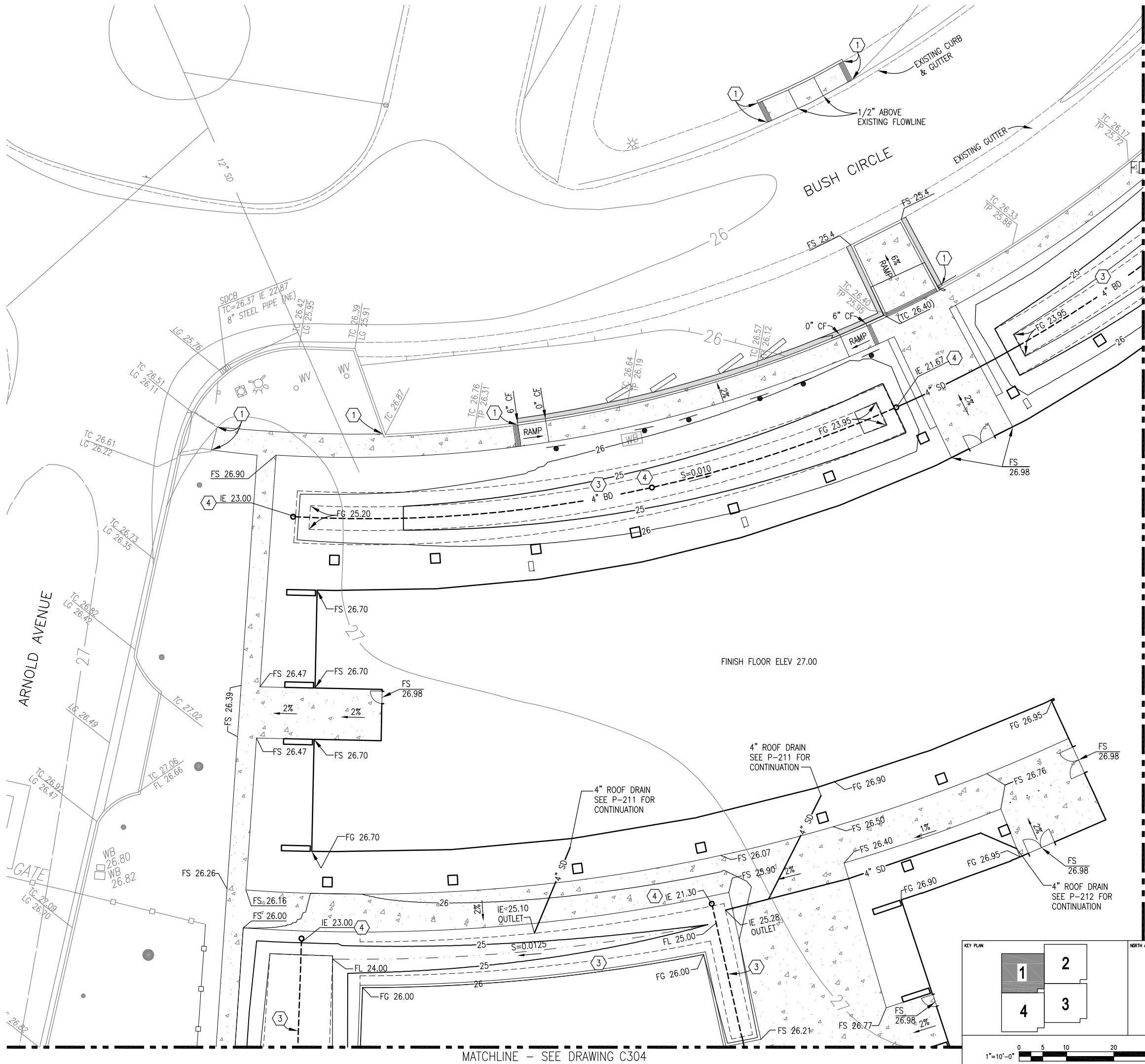
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KEY NOTES:

- 1 MATCH EXISTING ELEVATION
- 2 STORM DRAIN MANHOLE PER CITY ** FILE NO. B-1
- 3 PERFORATED BIOSWALE DRAIN LINE
- 4 DRAIN LINE CLEANOUT SIMILAR TO CITY ** FILE NO. C-5

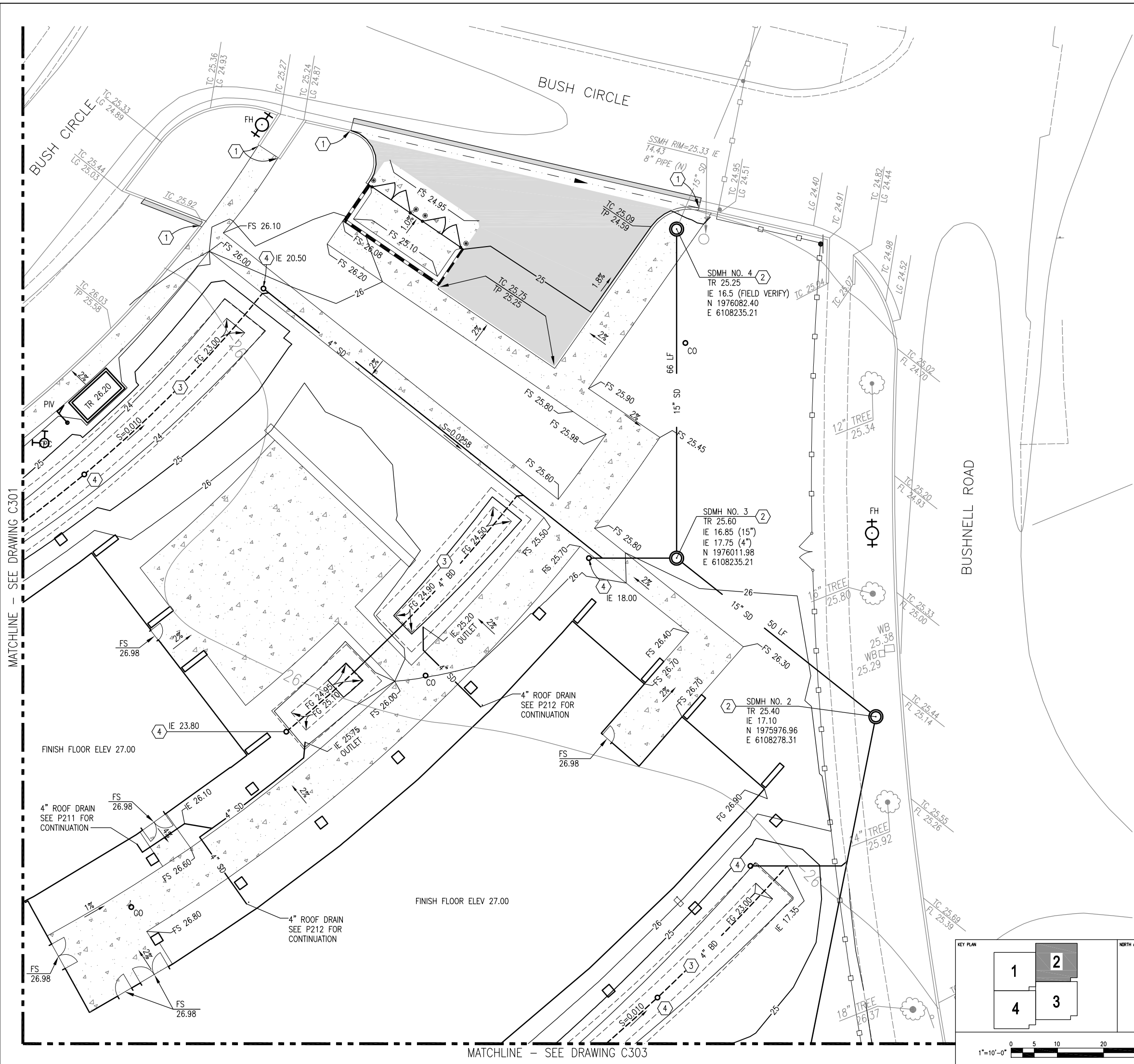
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KEY NOTES:

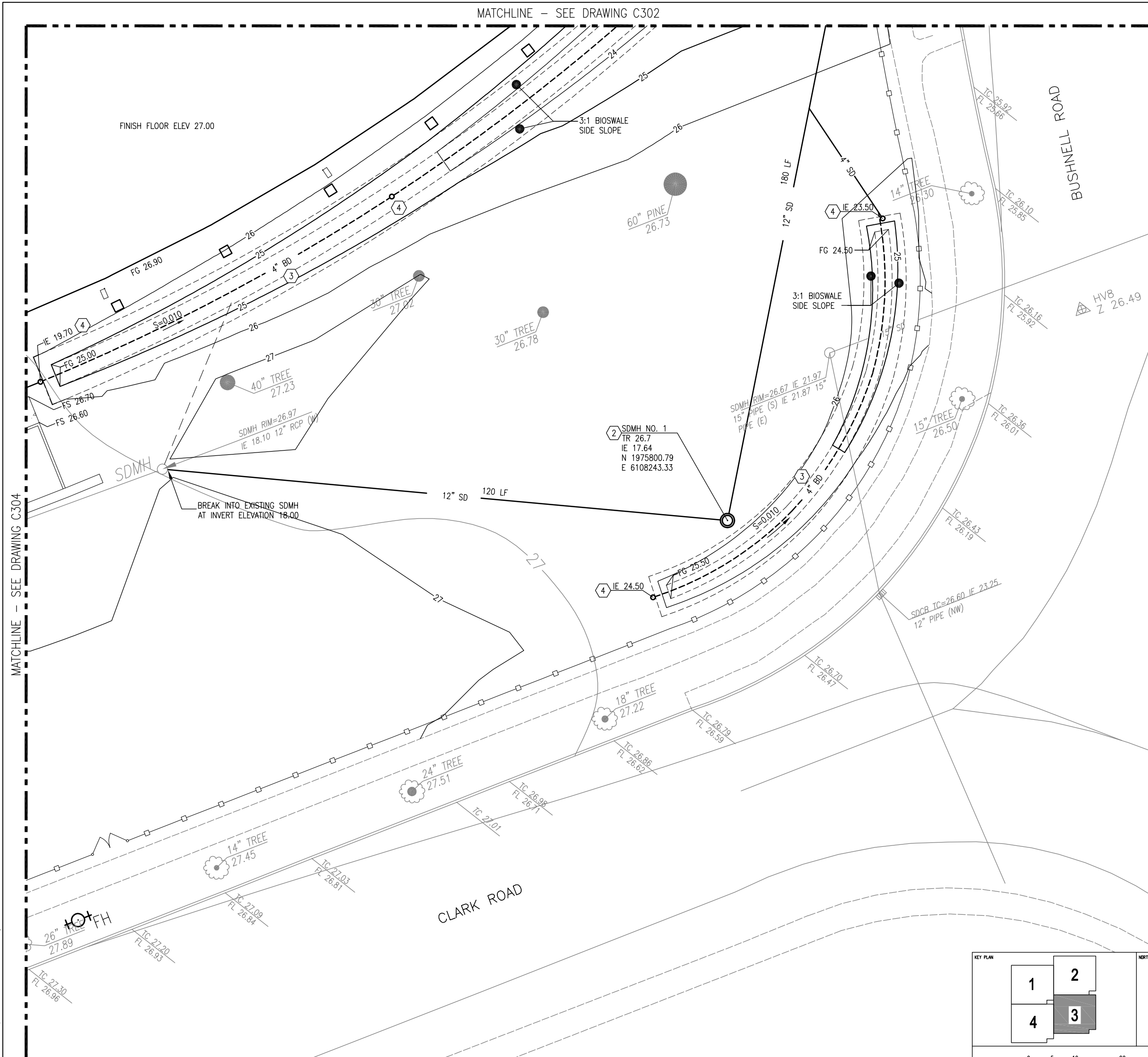
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- 4 DRAIN LINE CLEANOUT SIMILAR TO CITY ** FILE NO. C-5

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KEY NOTES:

- | | |
|---|---|
| 1 | MATCH EXISTING ELEVATION |
| 2 | STORM DRAIN MANHOLE PER CITY ** FILE NO. B-1 |
| 3 | PERFORATED BIOSWALE DRAIN LINE |
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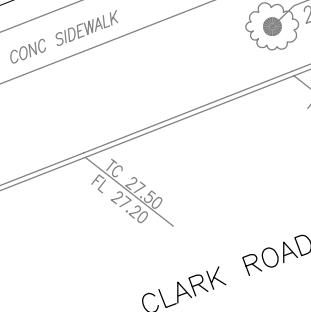
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MATCHLINE - SEE DRAWING C301




1	MATCH EXISTING ELEVATION
2	STORM DRAIN MANHOLE PER CITY ** FILE NO. B-1
3	PERFORATED BIOSWALE DRAIN LINE
4	DRAIN LINE CLEANOUT SIMILAR TO CITY ** FILE NO. C-5

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EROSION CONTROL NOTES:

- CONTRACTOR SHALL USE PROTECTIVE MEASURES FOR EXISTING SLOPE, DOWN DRAINS AND TERRACE DRAINS IN ORDER TO AVOID SEDIMENT LADEN RUN-OFF FROM ENTERING STORM DRAIN SYSTEM.
- SILT FENCES ARE SHOWN ALONG PERIMETER OF THE PROJECT SITE AND MAY BE MOVED AS REQUIRED TO ALLOW CONSTRUCTION ACTIVITIES BUT SHOULD ALWAYS BE PLACED ALONG OR WITHIN THE CONSTRUCTION AREA FOR EFFECTIVE EROSION CONTROL.
- A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIAL SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY, WHEN THE FIVE-DAY RAIN PROBABILITY FORECAST EXCEEDS 40 PERCENT.
- AFTER A RAIN STORM ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS. ANY GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING A RAINSTORM SHALL ALSO BE IMMEDIATELY REPAIRED. THE FACES OF CUT AND FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION.
- FILL SLOPES AT THE TRACT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

GENERAL NOTES:

- SEE DRAWING C001 FOR CIVIL ABBREVIATIONS AND LEGEND.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COPY OF THE CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE (BMP) HANDBOOK FOR CONSTRUCTION ACTIVITY (JAN. 2003), SECTION 3 – EROSION AND SEDIMENT CONTROL BMP'S FOR USE WITH THIS PLAN.
- CONSTRUCTION OF TEMPORARY FENCE & GATE SHALL PROVIDE THE SECURITY & CONTROLLED ACCESS TO THE SITE. CONSTRUCTION OF FINAL FENCE & GATE SHALL BE PHASED AS NECESSARY.

STORMWATER POLLUTION PREVENTION

STORMWATER POLLUTION PREVENTION DEVICES AND PRACTICES SHALL BE INSTALLED AND/OR INSTITUTED AS NECESSARY TO ENSURE COMPLIANCE TO CALIFORNIA WATER QUALITY STANDARDS. ALL SUCH DEVICES AND PRACTICES SHALL BE MAINTAINED, INSPECTED AND/OR MONITORED TO ENSURE ADEQUACY AND PROPER FUNCTION THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT.

COMPLIANCE TO THE WATER QUALITY STANDARDS AND ANY EROSION CONTROL PLAN ASSOCIATED WITH THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING REQUIREMENTS:

- SEDIMENTS AND OTHER POLLUTANTS SHALL BE RETAINED ON SITE UNTIL PROPERLY DISPOSED OF, AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS SHALL BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND AND WATER FLOW.
- FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS SHALL BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM, NOR BE ALLOWED TO SETTLE OR INFILTRATE INTO SOIL.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTES.
- TRASH AND CONSTRUCTION SOLID WASTES SHALL BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICULAR TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITS SHALL BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR REMOVED VEGETATION SHALL BE STABILIZED TO INHIBIT EROSION BY WIND AND WATER.
- STORMWATER POLLUTION PREVENTION DEVICES AND/OR PRACTICES SHALL BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES TO ENSURE EFFECTIVENESS.

KEY NOTES:

1 ENTANCE/EXIT (TC-1)

2 SILT FENCE (SE-1)

3 10' TEMPORARY CHAIN LINK FENCE & GATE PER SPPWC PLAN 600-2

5 C902

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SAFETY		
SUPERVISOR		

Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

EROSION CONTROL PLAN

SIZE	CAGE CODE	REV
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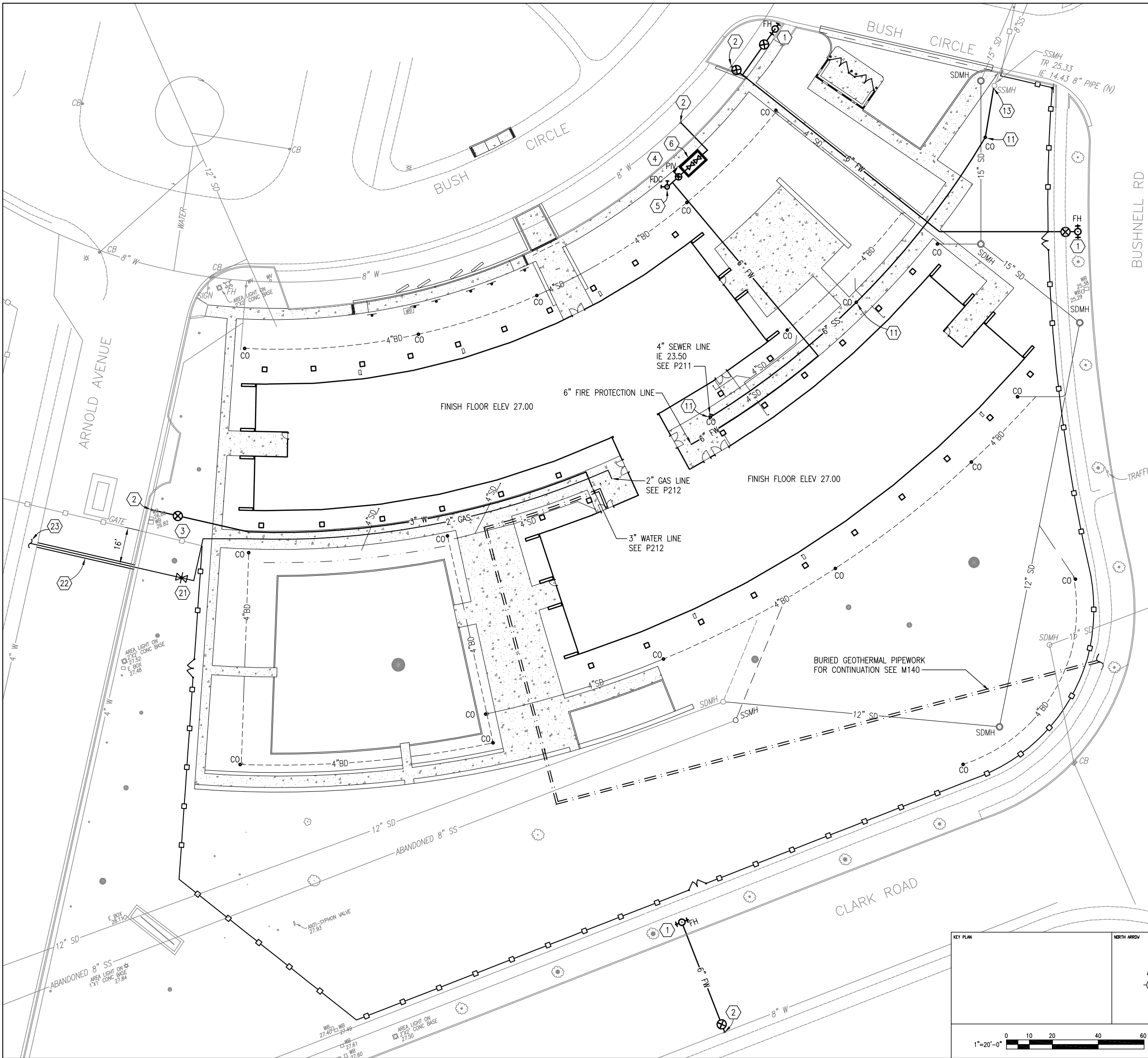
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KEY NOTES:

WATER LINE

- 1 FIRE HYDRANT PER CITY ** FILE NO. D-7
- 2 8"x 6" TAPPING SLEEVE AND GATE VALVE (HOT TAP).
- 3 GATE VALE PER CITY ** FILE NO. D-8
- 4 POST INDICATOR VALVE. SEE DETAIL C902
- 5 FIRE DEPARTMENT CONNECTION. SEE DETAIL C902
- 6 DOULBE CHECK BACKFLOW DETECTOR ASSEMBLY PER CITY ** FILE NO. D-5A

SEWER LINE

- 11 SEWER LINE CLEANOUT PER CITY ** FILE NO. C-6A
- 12 SEWER MANHOLE PER CITY ** FILE NO. C-1
- 13 FIELD VERIFY EXISTING INVERT AND CONNECT NEW LINE AT THE SAME INVERT AND LOCATION

GAS LINE

- 21 BUTTERFLY VALVE.
- 22 JACKED STEEL CASING UNDER ACCESS ROAD
- 23 NASA SHALL ROUTE GAS LINE TO CONNECTION POINT.

** PER CITY OF MOUNTAIN VIEW DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL

NOTES:

1. SEE DRAWING C001 FOR CIVIL ABBREVIATIONS AND LEGEND.
2. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 36 INCHES.
3. PROVIDE THRUST BLOCK AT ALL WATER PIPE BENDS AND TEES. USE CITY ** FILE NO. D-13 & D-14
4. ALL GAS LINES SHALL HAVE A MINIMUM COVER OF 24"
5. SEE DETAIL 2 ON C902 FOR TYPICAL PIPE TRENCHING.

ARCHITECT OF RECORD

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PROJECT STATUS

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DRAWN	DATE	
DESIGNED	DATE	
CHECKED	DATE	
PRELIM	DATE	
REQUESTOR	DATE	
REQA	DATE	
SAFETY	DATE	
SUPERVISOR	DATE	

SIZE	CAGE CODE	INDEX	SHEET	OF
D	25307	A232-0800-	C401	

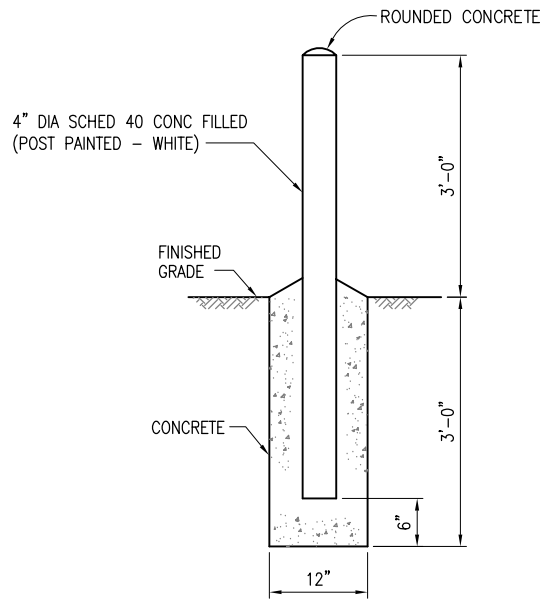


Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

UTILITY PLAN

DWG: Q:\60048683 - NASA Ames CSF N232\500 CAD\Sheet\0901.dwg User: whoatj
DATE: Feb 13, 2009 - 12:19:25 pm Images:
Xrefs: XREF



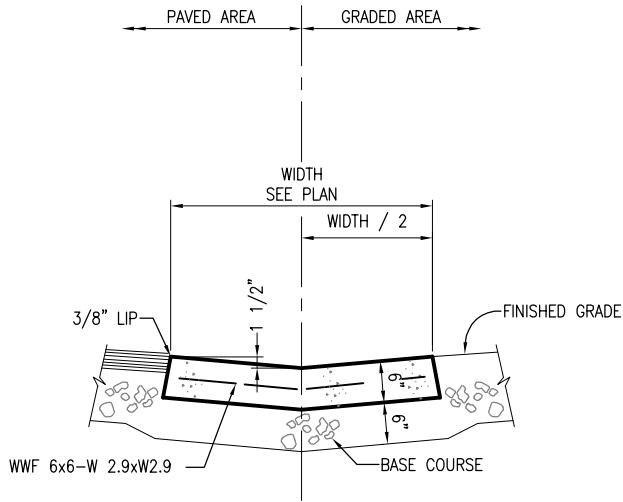
NOTE: SEE PLANS FOR LOCATION AND AMOUNT OF GUARD POST USED.

GUARD POST DETAIL

NOT TO SCALE

7
C201

DET001A

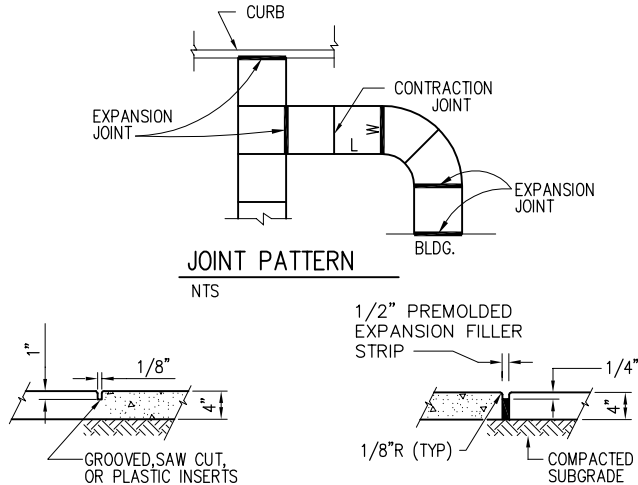


CONCRETE GUTTER DETAIL

NOT TO SCALE

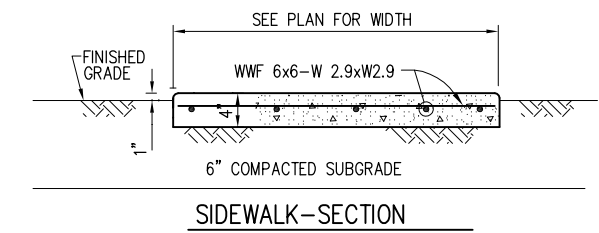
5
C201

DET-03



CONTRACTION JOINT

EXPANSION JOINT

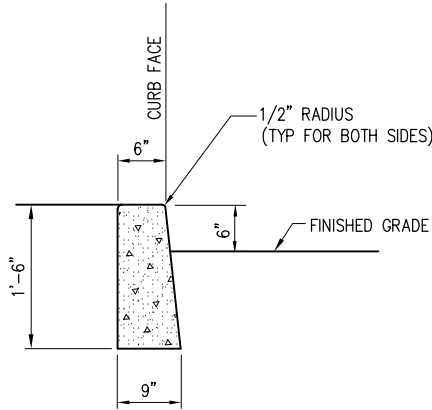


CONCRETE SIDEWALK

NOT TO SCALE

3
C201

DET- PVD10

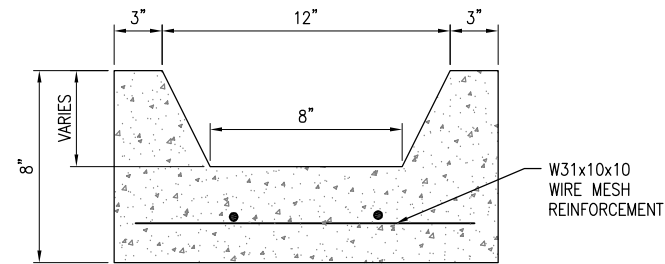


CONCRETE CURB DETAIL

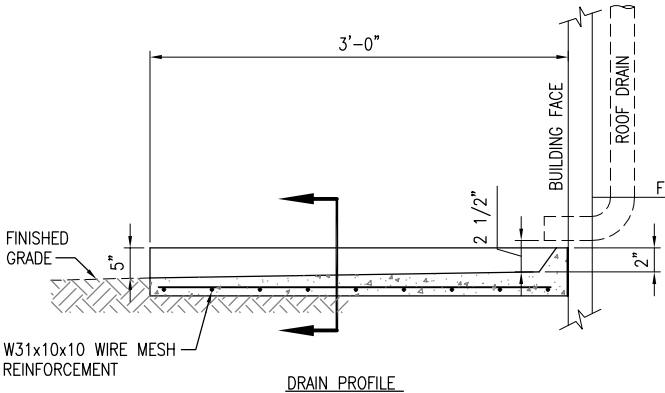
NOT TO SCALE

4
C201

DET CURB



SECTION



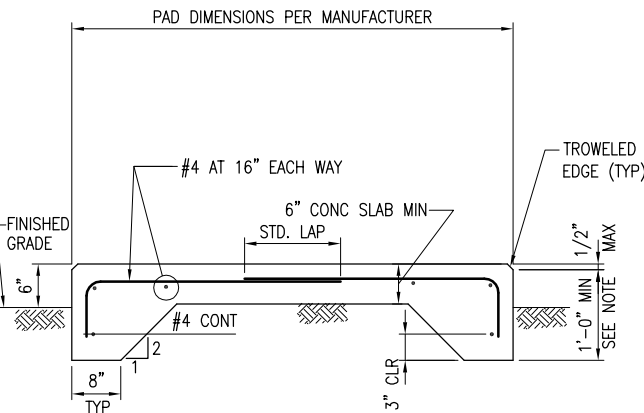
DRAIN PROFILE

ROOF OVERFLOW DRAIN CHANNEL

NOT TO SCALE

8
C201

DET CHAN



NOTE:

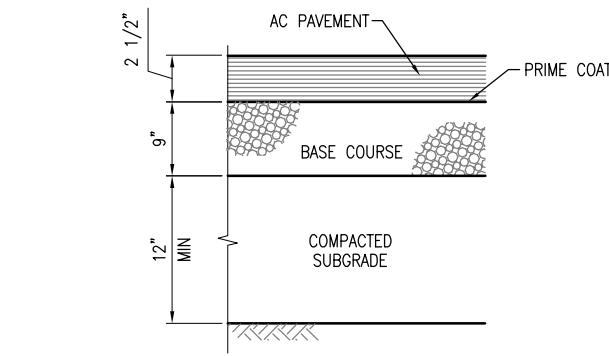
1. CONCRETE PAD SHALL BE USED FOR EQUIPMENT. EQUIPMENT DIMENSIONS, ANCHOR BOLT SIZE, LOCATION AND OTHER EMBEDDED ITEMS PER MANUFACTURER'S DRAWINGS.

CONCRETE EQUIPMENT PAD

NOT TO SCALE

6
C201

DET015

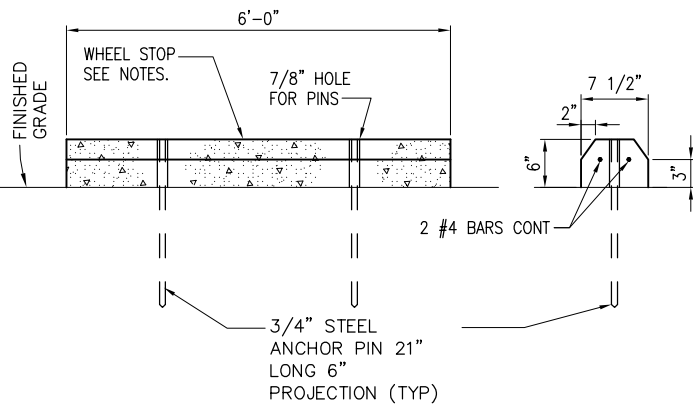


PAVEMENT DETAIL

NOT TO SCALE

1
C201

DET-01



TYPICAL PARKING BUMPER

SCALE: FULL

2
C201

DET-BUMPER

ARCHITECT OF RECORD

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REQUESTOR

DATE

REQA

DATE

SAFETY

DATE

SUPERVISOR

DATE

Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

CIVIL DETAILS


SIZE	CAGE CODE	INDEX	SHEET	OF
D	25307	A232-0800-	C901	REV



VERSION CONTROL DETAILS

<div>ARCHITECT OF RECORD</div> <div><div>DMJM H&N</div><div>AECOM</div></div>	
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DRAWN	DATE	<div><div>Ames Research Center Moffet Field, California</div></div> <div>N232 COLLABORATIVE SUPPORT FACILITY</div> <div>CIVIL DETAILS</div>			
DESIGNED	DATE				
CHECKED	DATE				
PROJ.MGR	DATE				
REQUESTOR	DATE				
QA/QA	DATE				
SAFETY	DATE				
SUPERVISOR	DATE				
		SIZE D	CAGE CODE 25307	A232-0800-	REV C902
		SCALE	INDEX	SHEET	OF